



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,149	05/30/2001	David Blight	035451-0125 (3620.Palm)	8876

26371 7590 06/21/2005

FOLEY & LARDNER
777 EAST WISCONSIN AVENUE
SUITE 3800
MILWAUKEE, WI 53202-5308

EXAMINER

ARANI, TAGHI T

ART UNIT	PAPER NUMBER
----------	--------------

2131

DATE MAILED: 06/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/870,149

Applicant(s)

BLIGHT ET AL.

Examiner

Taghi T. Arani

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/1/42005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 13-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 and 13-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

22

DETAILED ACTION

1. Claims 1-11, 13-24 are pending for examination.

Response to Amendment

2. Applicant's amendment and remarks filed on 4/14/2005 have been fully considered but they are not persuasive.

As per applicant arguments relating to the rejection of claims 1, 11 and 21, the Applicant argues Chen et al. and Wang do not disclose, teach, or suggest a mobile resource server coupled to the communication network and that Chen's access infolet 306 is designed to retrieve information from the internet, and not to provide information to mobile devices about what resources are available (page 7 of the REMARKS).

The Examiner disagrees. Chen et al. expressly state (see abstract) that "Access infolets utilize respective access methods to provide an abstract view of various information spaces" (see also page 2, paragraph 027, Fig. 11A and associated text).

Applicant further argues Wang's disclosed resources server providing information such as weather, info, traffic, and other information (page 8, REMARKS) does not correspond to the Applicant's mobile resources server which provides information to a mobile device when it connects to the network, about what information or what resources are available to the mobile device once it has connected to the network. The examiner responds that this feature is recited in now amended claim 21 and is disclosed by Chen et al. as discussed above and addressed in the rejection of claim 21 below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2131

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4, 6-11, 13-14, 16-21 rejected under 35 U.S.C. 102(e) as being anticipated by prior art of record, Chen et al. (US 2002/0177453).

As per claims 1, Chen et al. teach a network infrastructure for supporting communications with mobile devices, comprising:

a communications network (Fig. 1, page 2, paragraph 0036);

a mobile resources server coupled to the communications network (Fig. 3, access infolet, page 4, paragraph 0054);

a mobile resources proxy coupled to the communications network (fig. 3, Proxy interface 308);

a mobile device coordinator coupled to the communications network (Fig. 3, let Engine 310);

a security server coupled to the communications network (page 6, paragraph 0085); and

a mobile device access point coupled to the communications network (Fig.3 devlet 302);

and

configured for communications with mobile devices (page 3, paragraphs 0038).

As per claim 2, Chen et al. teach the network infrastructure of claim 1, wherein the mobile resources server, mobile resources proxy, mobile device coordinator, and security server are all server functions provided by a single server computer(page 3, paragraphs 0041).

As per claim 3, Chen et al. teach the network infrastructure of claim 1, wherein more than one of the mobile resources server, mobile resources proxy, mobile device coordinator, and security server are server functions provided by a single server computer (page 3, paragraphs 0040-041, see also page 2, paragraph 0037).

As per claim 4, Chen et al. teach the network infrastructure of claim 1, wherein the communications network is a local area network (LAN) (page 7, claim 8).

As per claim 6, Chen et al. teach the network infrastructure of claim 1, further comprising:

a wireless access proxy configured to send and receive non internet protocol (IP) communications (page 4, paragraphe 0054).

As per claim 7, Chen et al. teach the network infrastructure of claim 1, wherein the mobile device access point is configured to send and receive internet protocol (IP) communications (page 3, paragraphs 038 and 0042).

As per claim 8, Chen et al. teach the network infrastructure of claim 1, wherein the wireless access proxy includes a wireless network interface (page 2, paragraphs 037-038).

As per claim 9, Chen et al. teach the network infrastructure of claim 1, wherein the wireless access proxy includes a request interpreter (page 4, paragraph 047).

As per claim 10, Chen et al. teach the network infrastructure of claim 1, wherein the wireless access proxy includes an IP network interface (page 3, paragraph 0042).

As per claim 11, Chen et al. teach a communications system for communicating with mobile wireless devices, comprising:

a communications network (Fig. 1, page 2, paragraph 0036);

Art Unit: 2131

a wireless device access point coupled to the communications network (Fig.3 devlet 302);
at least one mobile wireless device configured to communicate with the wireless
access point when the mobile wireless device is within a communications range 9page 3,
paragraph 038); and

a centralized management system configured to manage and control mobile
device resources (page 2, paragraphs 0034- 0037, i.e. the mobile device server configured to
manage and control mobile device resources, page 3, paragraph 0038), wherein the centralized
management system includes a mobile resources server, a mobile resources proxy, a mobile
device coordinator (page 2, paragraph 0034), and a security server (page 6, paragraph 0085).

As per claim 13, Chen et al. teach the communications network of claim 11, wherein the
centralized management system includes more than one of a mobile resources server, a mobile
resources proxy, a mobile device coordinator, and a security server (page 3, paragraphs 0040-
041, see also page 2, paragraph 0037).

As per claim 14, Chen et al. teach the communications network of claim 11, wherein the
communications network is a local area network (LAN) (page 7, claim 8).

As per claim 16, Chen et al. teach the communications network of claim 11, further
comprising:

a wireless access proxy configured to send and receive non internet protocol (IP)
communications (page 4, paragraphe 0054).

As per claim 17, Chen et al. teach the communications network of claim 16, wherein the
mobile device access point is configured to send and receive Internet protocol (IP)
communications (page 3, paragraphs 038 and 0042).

As per claim 18, Chen et al. teach the communications network of claim 16, wherein the wireless access proxy includes a wireless network interface (page 2, paragraphs 037-038).

As per claim 19, Chen et al. teach the network infrastructure of claim 18, wherein the wireless access proxy includes a request interpreter (page 4, paragraph 047).

As per claim 20, Chen et al. teach the network infrastructure of claim 19, wherein the wireless access proxy includes an IP network interface (page 3, paragraph 0042).

As per claim 21, Chen et al. teach a method of providing a web page to a mobile device using a Bluetooth wireless transceiver, comprising:

establishing a wireless communications link with the mobile device (page 3, paragraph 0042, i.e. interface devlet 302 provides a protocol interface to a given device on a particular access network);

reporting the connection to a mobile device coordinator (page 3, paragraph 0043, i.e. the devlet interacts with the let engine (i.e. mobile device coordinator) and that the devlets provide requests to let engine));

providing information to the mobile device, from a mobile resources server, about resources available to the mobile device (Fig. 3, access infolet provides information about resources available to the mobile device, page 4, paragraph 0054, see also see also page 2, paragraph 027, Fig. 11A and associated text).

receiving a web page request from the mobile device (i.e. after the mobile device server is initialized, each interface devlet monitors a respective channel for incoming requests (i.e. a web page request) sent by a remote mobile device);

interpreting the request (page 4, paragraph 047);

Art Unit: 2131

sending the request to a mobile resources proxy that verifies the request with a security server and after verification retrieves the web page; receiving the web page from the mobile resources proxy; and sending the web page to the mobile device (page 4, paragraph 0053, i.e. the let engine invokes the access infolet appropriate for the information space to be accessed and that interface infolet retrieves the original content and returns it and that the request is retrieved after verification (page 4, paragraph 057, i.e. authentication of user)).

4. Claims 1, 11, 5, 15 and 22- 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang (US 2002/0160745).

As per claims 1, 11, 5, 15 and 22-24, Wang teaches a network infrastructure for supporting communications with mobile devices, comprising:

a communications network (Fig. 11, 130);

a mobile resources server coupled to the communications network (Fig. 11, resources servers 12,14,16,18 and 20);

a mobile resources proxy coupled to the communications network (Fig. 11, agents 134,136,138 and 140);

a mobile device coordinator coupled to the communications network (Fig. 11 and associated text, ISC 24, see page 4, paragraphs 64-67, i.e. a centralized management system including a mobile resources server, a mobile resources proxy, a mobile device coordinator, and a security server (Wang's protocol 72 allows AAA features);

a security server coupled to the communications network (Fig. 11, firewalls 132 and 158); and

a mobile device access point coupled to the communications network (Fig. 11, Sps 54,56,58, 60 and transport networks 46,48,50 and 52) and configured for communications with mobile devices (page 9, paragraphs 0108-0114, see also page 2, paragraphs 0037-0042 and Figures 1-2).

Wang discloses a plural information sources including a weather information source 12, a traffic information source 14, a commercial information source 16 including electronic commerce ("e-commerce"), mobile commerce ("m-commerce), etc., other services information sources 18 and an information source including current geographic locations of mobile devices 20 (i.e. mobile device coordinator). The information network 22 includes a wireless radio frequency ("RF") network, a satellite network, the Internet, an intranet or other information network including point-to-point, point-to-multi-point and other types of wireless or wired information or communication networks.

The ISC 24 includes plural servers 26 to serve electronic content (i.e. document or web page recited in independent **claims 22- 24**) to wireless mobile devices including HTML, XML"), WML, HDML, Java, and other types and formats of electronic content. The plural servers 26 include associated databases 28 to store electronic content, electronic templates and information obtained from the plural information sources 12, 14, 16, 18, 20. The ISC 24 is in communications with the information network 22, as well as the wireless transport network 30 with plural types of communications protocols including RF, MAC, Internet Protocol (IP), WAP, etc. In one embodiment the plural databases 28 are SQL databases or other types of relational databases used for event processing, forwarding, updating and tracking information.

In one embodiment of the Wang invention, information (document or web page) is "pushed" (i.e. providing a document and/or web page) from the plural information sources 12, 14, 16, 18, and 20 to the ISC 24 via interface 40. Pre-determined types and amounts of information are stored in the plural databases 28 associated with the plural servers 26. The stored information is served by the plural servers 26 and is "pushed" to the plural wireless mobile devices 32, 34, 36, 38 via the wireless transport network 30 and interfaces 42' and 42". Information, is also "pulled" (i.e. retrieving a document and/or web page) from the plural wireless mobile devices 32, 34, 36, 38, back to the ISC 24 via the wireless transport network 30 and interfaces 42' and 42".

Wang further teaches that the wireless transport network 30 of the exemplary location-aware network system 10 includes Bluetooth, IEEE 802.11b (**recited in claims 22- 24**), or other type of wireless transport networks.

Wang's protocol 72 allows Authorization, Authentication and Accounting ("AAA") features (i.e. a security server). The protocol 72 is also used to provide "information-in-place." The ISC 24 provides mobile users with location-aware wireless mobile devices specific information-in-place in such places as airports, shopping malls (**recited in claims 5 and 15**), university campuses, and other indoor (e.g., sports arena, museum, etc.) or other outdoor facilities (e.g., street, sidewalk, etc.), see page 4, paragraphs 64-67.

Action is Final

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2131

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Taghi T. Arani, Ph.D.

Examiner

Art Unit 2131

8/14/05



AYAZ SHEIKH

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100